C/CAG

City/County Association of Governments of San Mateo County

VTA

Santa Clara Valley Transportation Authority

TA

San Mateo County Transportation Authority

2020 Peninsula Gateway Corridor Study Policy Advisory Committee

DATE: Wednesday, December 12, 2007

TIME: 4:00 P.M

PLACE: Menlo Park City Hall

1st Floor Council Conference Room 701 Laurel Street, Menlo Park, CA

1. Introductions

2. Categorization of Project Alternatives*

(Assign project alternatives into categories for the purpose of establishing strategies to identify potential projects for the next phase of the 2020 Study)

- 3. Schedule next meeting for January 9, 2008
- 4. Adjourn.

^{*} Attachment

2020 PENINSULA GATEWAY CORRIDOR STUDY AGENDA REPORT

Date: December 12, 2007

To: 2020 Peninsula Gateway Corridor Study – Policy Advisory Committee

From: John Hoang

Subject: Categorization of Project Alternatives

(For further information contact Richard Napier at 599-1420 or John Hoang at 363-4105)

For this meeting Committee members will be asked to assign the 71 projects identified in the "Universe of Alternatives" into five different categories for the purpose of establishing recommendations for projects to be considered for the next phase of the 2020 Gateway study and project development process.

To recap, the objective of the 2020 Peninsula Gateway Corridor Study is to define and evaluate alternative traffic improvements in the study area that addresses the following Study Goals:

- Facilitate access,
- Enhance economic opportunities,
- Optimize use of existing infrastructure,
- Reduce congestion and local community impacts, and
- Minimize environmental impacts on sensitive resources

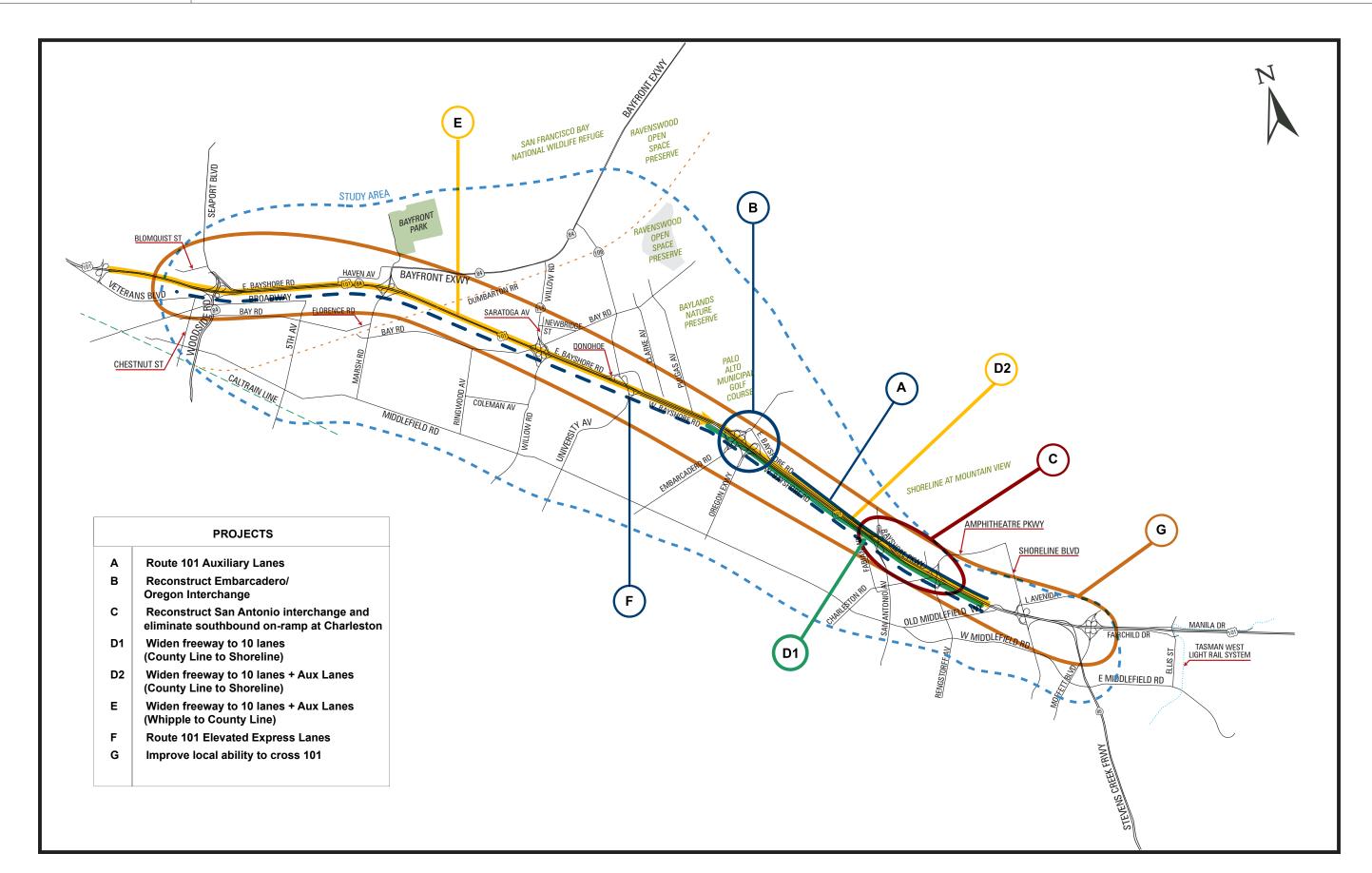
Below are the five categories and definitions that will be used for categorizing different project alternatives.

- 1. **Referral to Other Agency** These projects would be referred to other more appropriate agencies such (i.e., local cities) for consideration and follow-up.
- 2. **Project Development** (Short-term: 5 yrs or Long-term 10-15 yrs) These projects have clearly identifiable benefits, have general support, and have a high probability of being funded.
- 3. **Phase II Study** These projects should be studied further to resolve issues. There are some interests in gathering additional information to further develop these project concepts.
- 4. **Study Later** These projects are long-term and should be studied further at a later date.
- 5. **Not Consistent with Goals** These projects are not consistent with goals established for the 2020 Study.

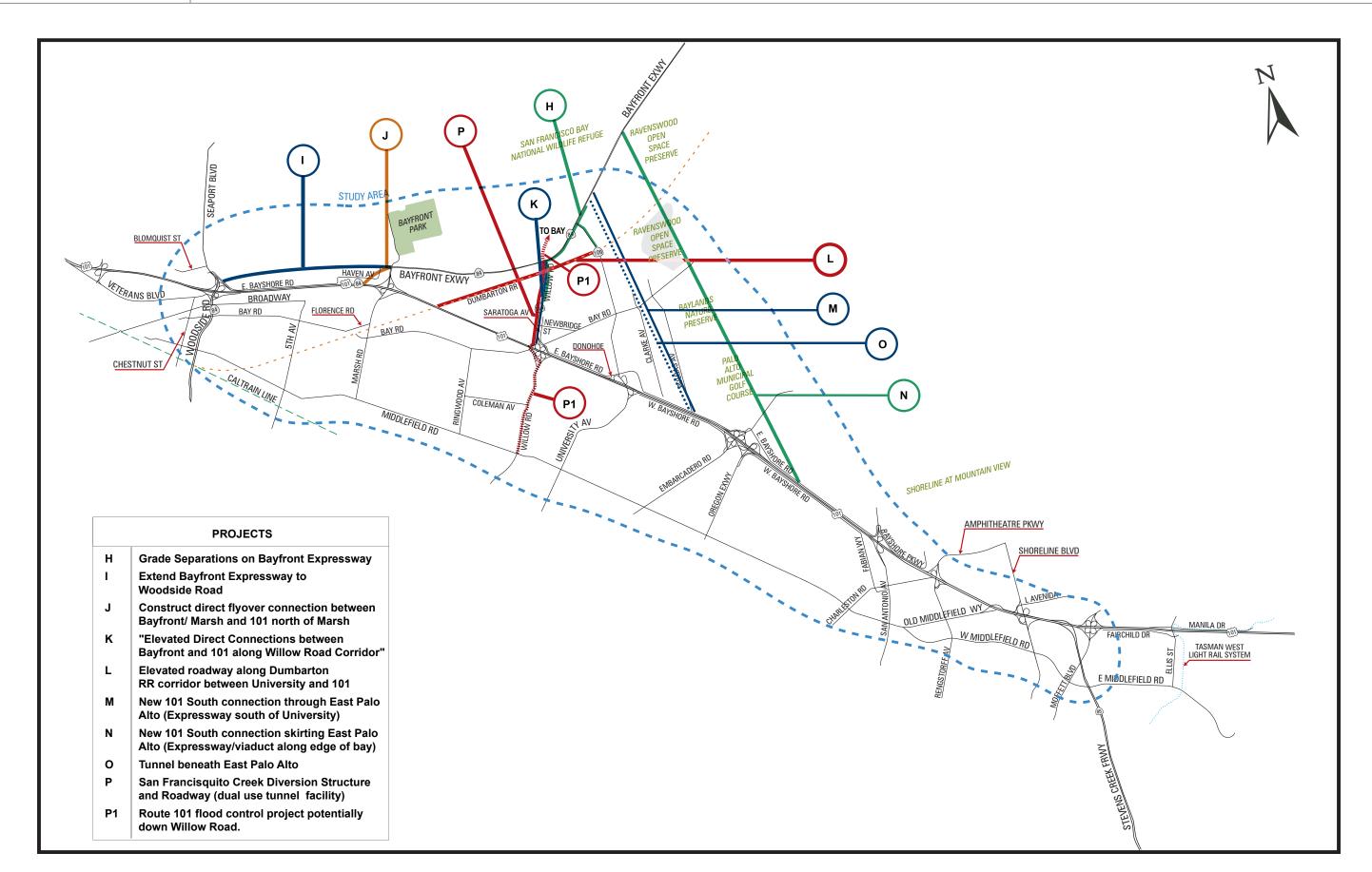
Project alternatives identified in the "Universe of Alternatives" will be categorized based on the resulting analyses performed for traffic benefits, construction cost, and potential impacts as depicted in the alternative assessment matrices. In preparation for the meeting, the following information is provided (attachment) for your review:

- Project location maps 5 total (these maps were displayed at the November meeting)
- Updated qualitative assessments for the 71 project alternatives (incl. 7 alternatives studied in detailed)
- 2020 Gateway Study "Next Steps" diagram

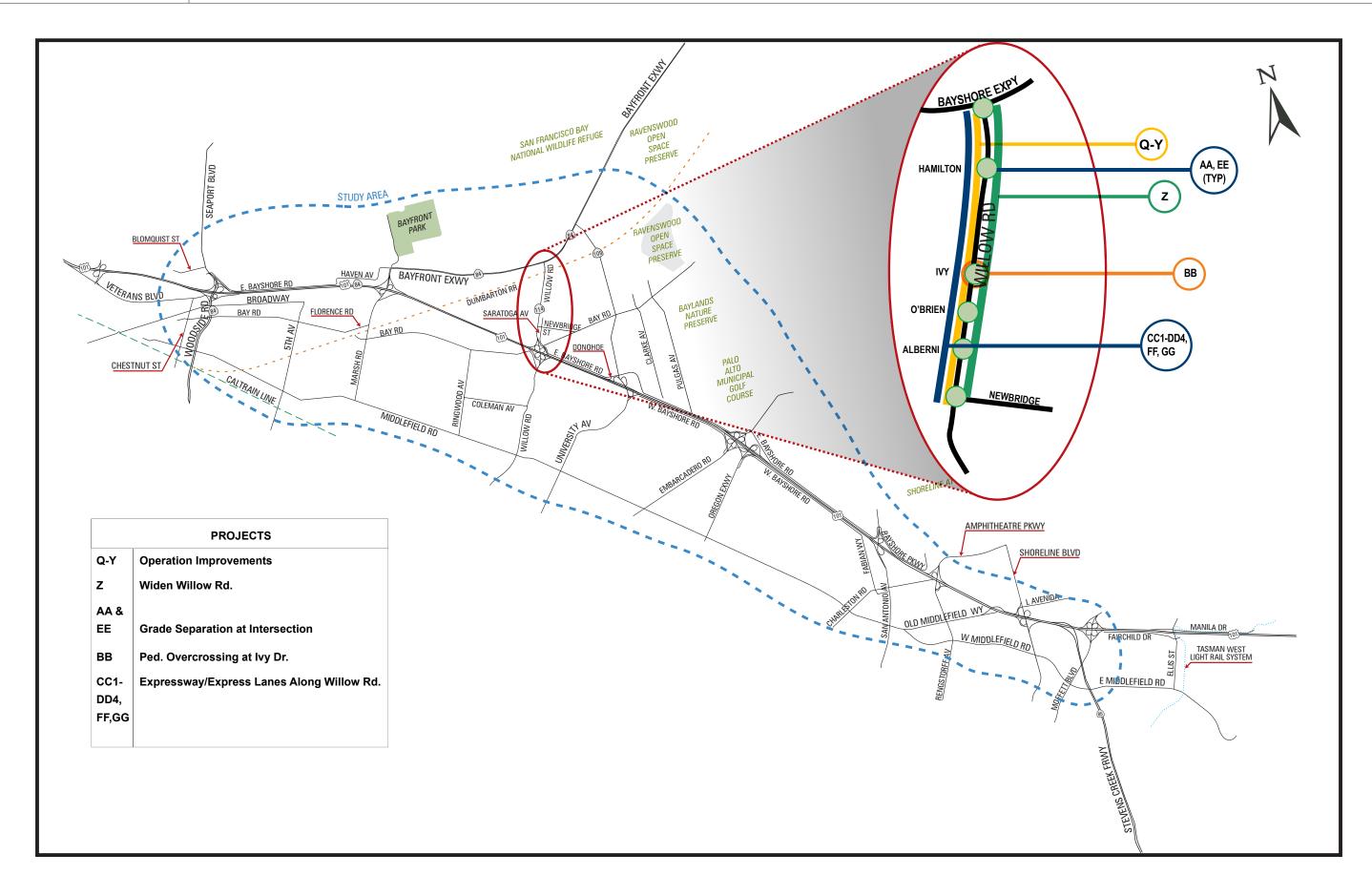




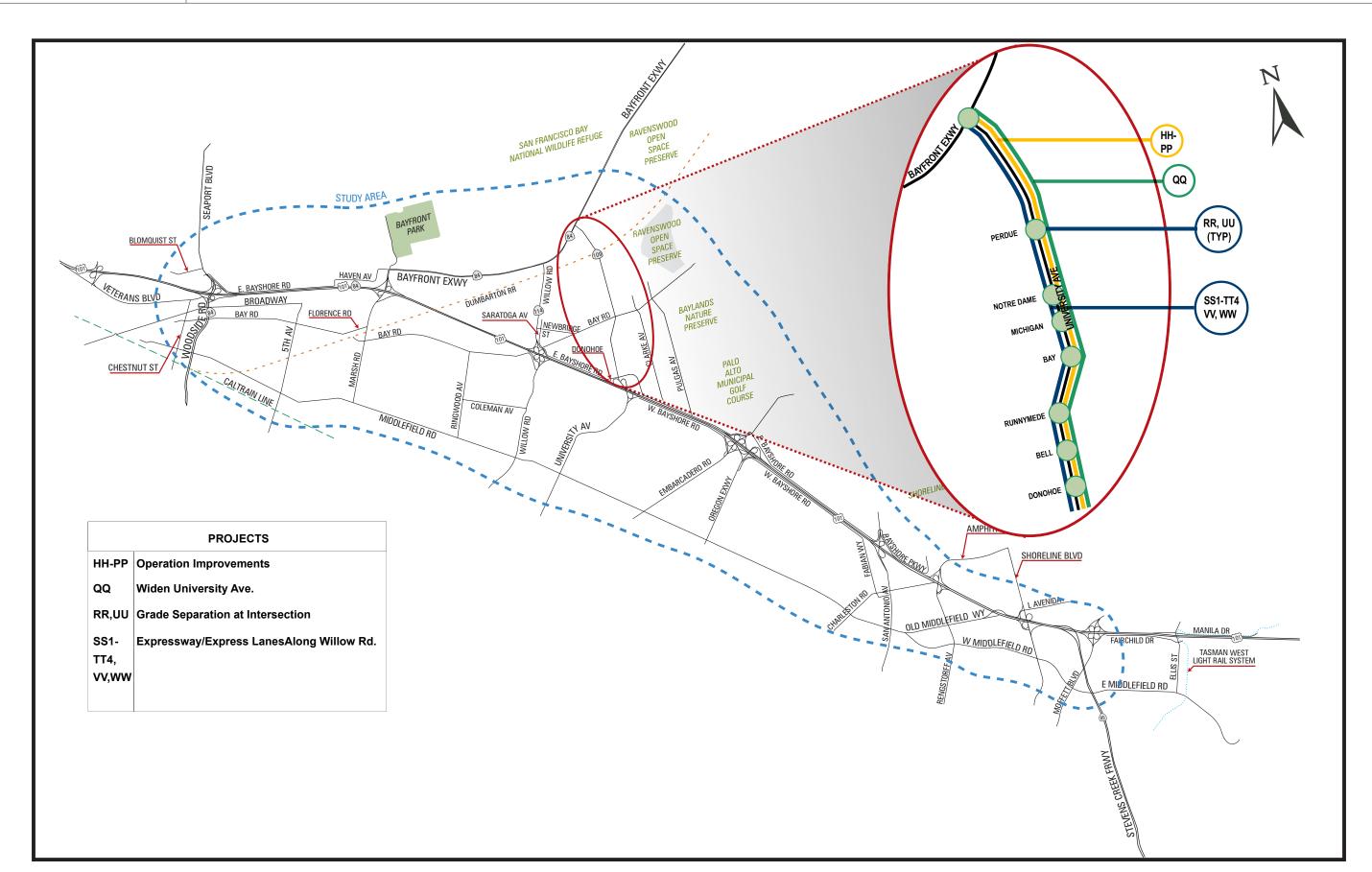




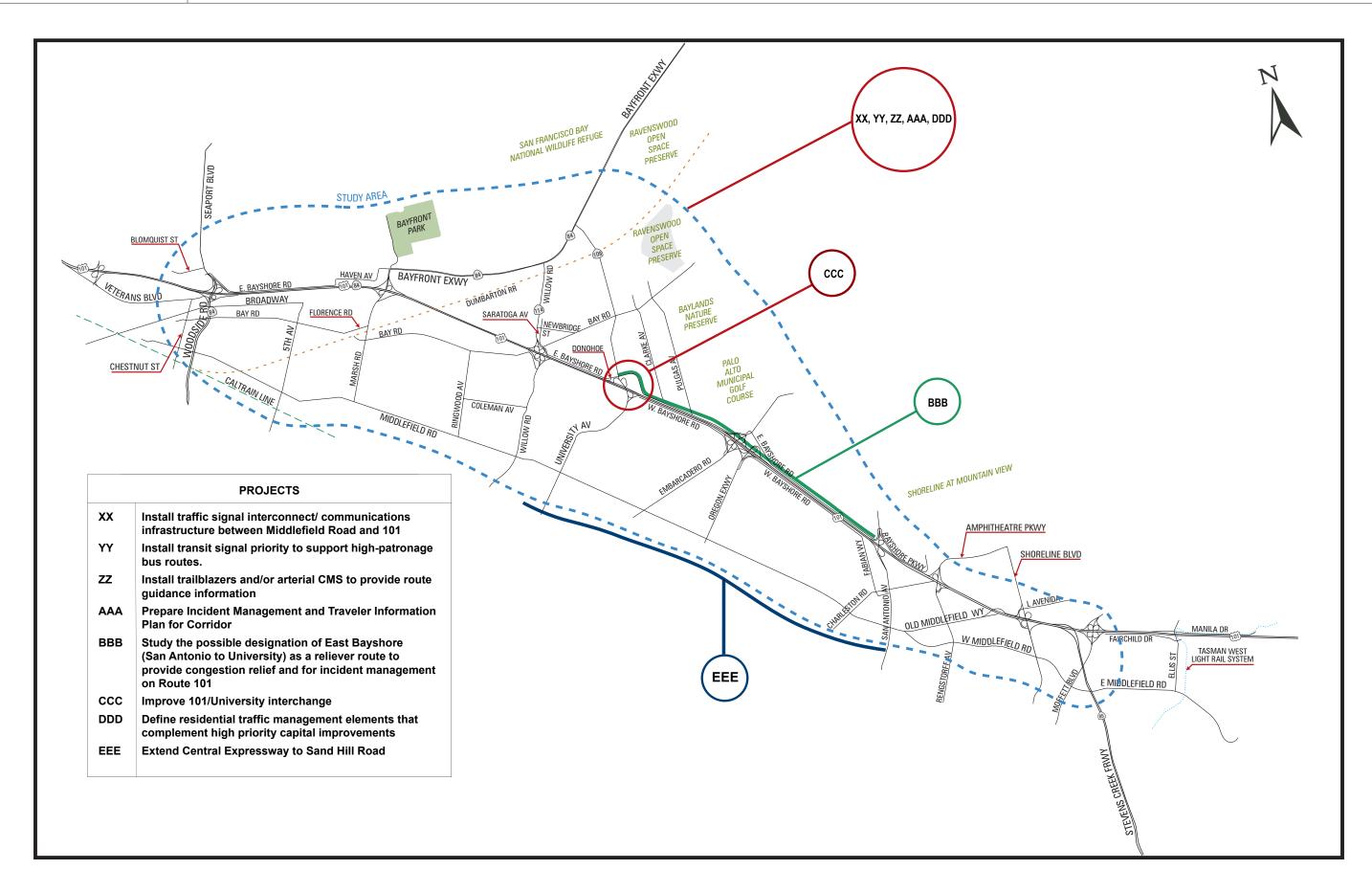












HIGHWAY 101

ID Code	Alternative	Location	Traffic	Benefits	Construction Cost (2006\$)		Potential Impacts				
						Visual/ Aesthetics	Noise	Environment	Right-of-Way		
			Change in Roadway Congestion (Expressed in ranges of travel time savings (min))	Decrease commute traffic on residential streets? (Expressed in ranges of peak period traffic volume)							
A	Route 101 Auxiliary Lanes	MV, PA			See "Comparis	on" Chart (A	LT 1)				
В	Reconstruct Embarcadero/Oregon Interchange	MV, PA	•	•	\$\$\$	•	•	•	•		
С	Reconstruct San Antonio interchange and eliminate southbound on ramp at Charleston	MV, PA	•	-	\$\$\$	•	•	•	•		
D1	Widen freeway to 10 lanes (County Line to Shoreline)	MV, PA	•	-	\$\$\$\$\$	•	•	•	•		
D2	Widen freeway to 10 lanes + Aux Lanes (County Line to Shoreline)	MV, PA	•	-	\$\$\$\$\$	0	•	0	0		
E	Widen freeway to 10 lanes + Aux Lanes (Whipple to County Line)	RC, MP, EPA, PA	•	-	\$\$\$\$\$	0	•	0	0		
F	Route 101 Elevated Express Lanes	MV, PA, EPA, MP, RC			See "Comparis	on" Chart (A	LT 2)				
G	Improve local ability to cross	MV, PA, EPA, MP, RC	-	-	\$\$	-	-	•	•		

	ASSESSMENT KEY:	
•	IMPROVEMENT	LESS-THAN-SIGNIFICANT
•	SMALL IMPROVEMENT	LESS-THAN-SIGNIFICANT (w/ MITIGATION)
0	DEGRADE	SIGNIFICANT
-	NO CHANGE	NONE

Location Key:	
EPA	East Palo Alto
MP	Menlo Park
MV	Mountain View
PA	Palo Alto
RC	Redwood City

Construction Cost Key	
\$\$\$\$\$	>\$500M
\$\$\$\$	\$200M-\$500M
\$\$\$	\$50M-\$200M
\$\$	\$1M-\$50M
¢	<\$1M

CONNECTING BRIDGE AND HIGHWAY 101

ID Code	Alternative	Location	Traffic	Benefits	Construction Cost (2006\$)		Potential Impacts			PAC Comments
						Visual/ Aesthetics	Noise	Environment	Right-of-Way	
			Change in Roadway Congestion (Expressed in ranges of travel time savings (min))	Decrease commute traffic on residential streets? (Expressed in ranges of peak period traffic volume)						
н	Grade Separations on Bayfront Expressway	EPA, MP			See "Comparis	on" Chart (A	ALT 3)			
ı	Extend Bayfront Expressway to Woodside Road	MP, RC	•	•	\$\$\$	•	0	0	0	
J	Construct direct flyover connection between Bayfront/ Marsh and 101 north of Marsh	MP, RC	•	•	\$\$\$	0	•	•	0	
к	Elevated Direct Connections between Bayfront and 101 along Willow Road Corridor	EPA, MP		This	project has been re	placed by in	nproveme	nt CC		
L	Elevated roadway along Dumbarton RR corridor between University and 101	EPA, MP	•	•	\$\$\$\$	0	•	0	•	
М	New 101 South connection through East Palo Alto (Expressway south of University)	EPA, MP	•	•	\$\$\$\$\$	0	0	0	0	
N	New 101 South connection skirting East Palo Alto (Expressway/viaduct along edge of bay)	EPA, PA	•	•	\$\$\$\$\$	0	•	0	0	
o	Tunnel beneath East Palo Alto	ЕРА	•	•	\$\$\$\$\$	•	•	•	•	
P	San Francisquito Creek Diversion Structure and Roadway (dual use tunnel facility)	EPA, PA	•	•	\$\$\$\$	•	•	0	•	
P1	Route 101 flood control project potentially down Willow Road.	EPA, MP	_	_	\$\$\$\$	•	•	0	•	

ASSESSMENT KEY:			
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	_	NO CHANGE	NONE

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Construction Cost Key	
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\$\$	\$1M-\$50M
\$	<\$1M

WILLOW ROAD

ID Code	Alternative	Location	Traffic	Benefits	Construction Cost (2006\$)		Pot	ential Impacts		PAC Comments
						Visual/ Aesthetics	Noise	Environment	Right-of-Way	
			Change in Roadway Congestion	Decrease commute traffic on residential streets?						
			(Expressed in ranges of travel time savings (min))	(Expressed in ranges of peak period traffic volume)						
Q	Short-term operational improvements on Willow Road	EPA, MP			See "Comparis	son" Chart (/	ALT 4)			
R	Prohibit left turns during peak travel periods	EPA, MP	•	•	\$	_	-	•	_	
s	Prohibit local cross traffic during peak travel periods	EPA, MP	•	•	\$	-	-	0	-	
т	Exit/Entrance Right Turn pockets on Willow	EPA, MP	•	•	\$	-	-	-	•	
U	Set back curb line one lane width from traveled way at driveways	EPA, MP	•	•	\$	-	-	0	0	
٧	Eliminate driveway access on Willow	EPA, MP	•	•	\$	-	-	0	-	
w	Eliminate selected signalized intersections: Newbridge St Ivy Dr Hamilton Ave	EPA, MP	•	•	\$	-	-	0	-	
x	Eliminate signalized intersections and allow right turns only on/off Willow	EPA, MP	•	•	\$	-	-	0	-	
Y	Eliminate signalized intersections and prohibit any access from local streets	EPA, MP	•	•	\$	-	-	0	-	
z	Widen Willow one lane each direction	EPA, MP	•	•	\$\$\$	0	•	0	0	
AA	Grade separations at selected intersections: Newbridge St Ivy Dr Hamilton Ave	EPA, MP	•	•	\$\$\$\$	0	•	0	0	
ВВ	Pedestrian over crossing at Ivy Dr (near Mid- Peninsula High School)	EPA, MP	-	_	\$\$	0	_	-	•	

ASSESSMENT KEY:			
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	0	DEGRADE	SIGNIFICANT

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	•
Construction Cost Key	
\$\$\$\$\$	>\$500M
\$\$\$\$	\$200M-\$500M
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WILLOW ROAD (CONT'D)

					Construction Cost					
ID Code	Alternative	Location	Traffic	Traffic Benefits (2006\$)			Potential Impacts			
						Visual/ Aesthetics	Noise	Environment	Right-of-Way	
			Change in Roadway Congestion (Expressed in ranges of travel time savings (min))	Decrease commute traffic on residential streets? (Expressed in ranges of peak period traffic volume)		Assureus	Noise	LIVITORINE	Nym-u-way	
	Elevated viaduct expressway structure • 2 lanes in each direction	EPA, MP	•	•	\$\$\$\$	0	•	•	•	
CC2 (Alt 6)	Elevated viaduct expressway structure • 1 lane in each direction	EPA, MP			See "Comparis	son" Chart (Al	LT 5)			
CC3	Elevated viaduct expressway structure • Reversible 2 lanes	EPA, MP	•	•	\$\$\$\$	0	•	•	•	
CC4	Elevated viaduct expressway structure • 3 lanes with reversible middle lane	EPA, MP	•	•	\$\$\$\$	0	•	•	•	
DD1	Depressed expressway • 2 lanes in each direction	EPA, MP	•	•	\$\$\$\$	•	•	•	0	
DD2	Depressed expressway - 1 lane in each direction	EPA, MP	•	•	\$\$\$\$	•	•	•	•	
DD3	Depressed expressway • Reversible 2 lanes	EPA, MP	•	•	\$\$\$\$	•	•	•	•	
	Depressed expressway • 3 lanes with reversible middle lane	EPA, MP	•	•	\$\$\$\$	•	0	•	•	
EE	Grade separations at all intersections (over crossings or under crossings)	EPA, MP	•	•	\$\$\$\$\$	0	•	0	0	
	Tunnel Expressway (maintaining existing facility at grade)	EPA, MP	•	•	\$\$\$\$	•	•	•	•	
GG	Willow Road Depressed/Cantilevered Express Lanes	EPA, MP			See "Comparis	son" Chart (Al	LT 6)			

ASSESSMENT KEY:						
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	0	DEGRADE	SIGNIFICANT			
	_	NO CHANGE	NONE			

East Palo Alto
/lenlo Park
Mountain View
Palo Alto
Redwood City
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Construction Cost Key	
\$\$\$\$\$	>\$500M
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\$\$\$	\$50M-\$200M
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\$	<\$1M

UNIVERSITY AVENUE

ID Code	Alternative	Location	Traffic	Benefits	Construction Cost (2006\$)		Pote	ntial Impacts		PAC Comments
						Visual/ Aesthetics	Noise	Environment	Right-of-Way	
			Change in Roadway Congestion (Expressed in ranges of travel time savings (min))	Decrease commute traffic on residential streets? (Expressed in ranges of peak period traffic volume)						
НН	Short-term operational improvements on University Avenue	ЕРА			See "Comparis	son" Chart (A	LT 7)	1		
II	Prohibit left turns during peak travel periods	EPA	•	•	\$	-	-	•	-	
IJ	Prohibit local cross traffic during peak travel periods	ЕРА	•	•	\$	-	-	0	-	
кк	Entrance/Exit Right Turn pockets on University	ЕРА	•	•	\$	-	-	-	•	
LL	Set back curb line one lane width from traveled way at driveways	ЕРА	•	•	\$	-	-	0	0	
мм	Eliminate driveway access on University	ЕРА	•	•	\$	-	-	0	-	
NN	Eliminate selected signalized intersections: - Bell - Runnymeade - Kavanaugh	ЕРА	•	•	\$	-	-	0	-	
00	Eliminate signalized intersections and allow right turns only on/off University	ЕРА	•	•	\$	-	-	0	-	
PP	Eliminate signalized intersections and prohibit any access from local streets	ЕРА	•	•	\$	-	-	0	-	
QQ	Widen University one lane each direction	EPA	•	•	\$\$\$	0	•	0	0	
RR	Grade separations at selected intersections: Donohoe Bay	ЕРА	•	•	\$\$\$\$	0	•	0	0	

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UNIVERSITY AVENUE (CONT'D)

ID Code	Alternative	Location	Traffic	Benefits	Construction Cost (2006\$)		Pot	ential Impacts		PAC Comments
						Visual/ Aesthetics	Noise	Environment	Right-of-Way	
			Change in Roadway Congestion (Expressed in ranges of travel time savings (min))	Decrease commute traffic on residential streets? (Expressed in ranges of peak period traffic volume)						
SS1	Elevated expressway/viaduct along University corridor . 2 lanes each direction	ЕРА	•	•	\$\$\$\$	0	•	•	•	
SS2	Elevated viaduct expressway structure 1 lane in each direction	EPA	0	•	\$\$\$\$	0	•	•	•	
SS3	Elevated viaduct expressway structure • Reversible 2 lanes	EPA	•	•	\$\$\$\$	0	•	•	•	
SS4	Elevated viaduct expressway structure - 3 lanes with reversible middle lane	ЕРА	•	•	\$\$\$\$	0	•	•	0	
TT1	Depressed expressway - 2 lanes each direction	EPA	•	•	\$\$\$\$\$	•	•	•	•	
TT2	Depressed expressway - 1 lane in each direction	ЕРА	0	•	\$\$\$\$\$	•	•	•	•	
ттз	Depressed expressway Reversible 2 lanes	ЕРА	•	•	\$\$\$\$\$	•	•	•	•	
TT4	Depressed expressway - 3 lanes with reversible middle lane	ЕРА	•	•	\$\$\$\$\$	•	•	•	0	
υυ	Grade separations at all intersections (over crossings or under crossings)	EPA	•	•	\$\$\$\$\$	0	•	0	0	
vv	Tunnel Expressway, (maintain existing facility at grade)	EPA	•	•	\$\$\$\$\$	•	•	•	•	
ww	University Avenue Depressed/Cantilevered Express Lanes	EPA		,	See "Compari	son" Chart (A	ALT 8)			

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e	~\$1M

INTELLIGENT TRANSPORTATION SYSTEMS (ITS)

ID Code	Alternative	Location	Traffic	Benefits	Construction Cost (2006\$)			PAC Comments		
						Visual/ Aesthetics	Noise	Environment	Right-of-Way	
			Change in Roadway Congestion (Expressed in ranges of travel time savings (min))	Decrease commute traffic on residential streets? (Expressed in ranges of peak period traffic volume)						
хх	Install traffic signal interconnect/ communications infrastructure between Middlefield Road and 101	ALL	•	•	\$\$	-	-	-	_	
YY	Install transit signal priority to support high-patronage bus routes.	ALL	•	•	\$\$	-	-	_	-	
zz	Install trailblazers and/or arterial CMS to provide route guidance information	ALL	•	•	\$\$	-	-	_	_	
AAA	Prepare Incident Management and Traveler Information Plan for Corridor	ALL	•	•	\$	-	-	-	-	

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\$\$	\$1M-\$50M
\$	<\$1M

OTHER

ID Code	Alternative	Location	Traffic	Benefits	Construction Cost (2006\$)		Potential Impacts					
						Visual/ Aesthetics	Noise	Environment	Right-of-Way			
			Change in Roadway Congestion (Expressed in ranges of travel time savings (min))	Decrease commute traffic on residential streets? (Expressed in ranges of peak period traffic volume)								
ввв	Study the possible designation of East Bayshore (San Antonio to University) as a reliever route to provide congestion relief and for incident management on Route 101 - Improve operations at intersections - Install directional signage to help keep commuters off residential streets	MV, EPA	-	-	\$	_	-	-	-			
ccc	Improve 101/University interchange - Construct southbound direct-connect off-ramp - Improve on-off connections for northbound traffic	PA, EPA	•	•	\$\$\$	•	•	•	•			
DDD	Define residential traffic management elements that complement high priority capital improvements	ALL	-	•	\$	-	-	•	-			
EEE	Extend Central Expressway to Sand Hill Road	PA	•	•	\$\$\$\$\$	0	0	0	0			

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	_	NO CHANGE	NONE

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\$\$	\$1M-\$50M
\$	<\$1M

COMPARISON OF BENEFITS, COSTS AND IMPACTS FOR ALTERNATIVES STUDIED IN DETAIL 2020 Peninsula Gateway Corridor Study

ID Code	Alternative	Location			Cost Estimate S	ummary (2006\$)			Potential Envir	onmental Impacts	s by Alternative				
						Construction Cost	Right-of-Way Cost	Support Cost	Total Project Cost	Visual/ Aesthetics	Noise	Biological Resources	Right-of-Way	Other Issues	
			Change in Vehicle Hours of Travel (Typical weekday, 6 a.m. to 6 p.m.))		Decrease compressed chapter period traff	al streets?									
					Clarke	Pulgas									
1	Route 101 Auxiliary Lanes	MV, PA	-1,158		-200 (-10%)	-100 (-10%)	\$57 M	\$20 M	\$28 M	\$105 M	Negligible Impacts	Minimal Impact	crossing of Adobe &	One building may be impacted at 101/Sar Antonio interchange	n Negative
2	Route 101 Elevated Express Lanes	MV, PA, EPA, MP, RC	-18,402		0	0	\$900 M	\$80 M	\$230 M	\$1,210 M	Significant and unmitigable impact	Less than significant impact given soundwalls would be built on elevated structure	Possible impact at crossing of Adobe & Matadero Creeks	Minimal impact; no acquisition of businessess or residences	Major environmental issues; strong opposition likely; full EIR required
3	Grade Separations on Bayfront Expressway	EPA, MP	-6,785		+200 (+10%)	+100 (+10%)	\$180 M	\$67 M	\$86 M	\$333 M	Less-than-significant impact	Less-than-significant impact	Impacts to wetlands at edge of Bay	Reconfiguration of access and parking at Sun Microsystems	Would impact recreational trail along Bayfront; BCDC permit needed; full EIR likely required
4	Short-term operational improvements on Willow Road	EPA, MP	minor		minor	minor	\$0.09 M	\$0 M	\$0.03 M	\$0.12 M	None	None	None	None	Would likely qualify for a Categorical Exemption
6	Willow Road Elevated Express Lanes	EPA, MP	-6,311		-100 (-5%)	-100 (-10%)	\$96 M	\$33 M	\$46 M	\$175 M	Significant and unmitigable impact		Less-than-significant impact		Major environmental issues; strong opposition likely; full EIR required
7	Willow Road Depressed/Cantilevered Express Lanes	EPA, MP	Same as Alt 6		Same as Alt 6	Same as Alt 6	\$230 M	\$33 M	\$110 M	\$373 M	Less-than-significant impact	Less-than-significant impact	Less-than-significant impact	Minimal impact; no acquisition of businessess or residences	Would impact Hetch- Hetchy pipelines; presence of Bay mud will affect trench design/cost; trench will need a system for dewatering of storm water & groundwater; full EIR may be required

COMPARISON OF BENEFITS, COSTS AND IMPACTS FOR ALTERNATIVES STUDIED IN DETAIL 2020 Peninsula Gateway Corridor Study

ID Code	Alternative	Location		Traffic Be	nefits			Cost Estimate S	ummary (2006\$)			Potential Envir	onmental Impact	s by Alternative	
							Construction Cost	Right-of-Way Cost	Support Cost	Total Project Cost	Visual/ Aesthetics	Noise	Biological Resources	Right-of-Way	Other Issues
			Change in Vehicle Hours of Travel (Typical weekday, 6 a.m. to 6 p.m.))		residentia	mute traffic on al streets? hange in peak fic volume)									
					Clarke	Pulgas									
8	Short-term operational improvements on University Avenue	EPA	minor		minor	minor	\$0.18 M	\$0 M	\$0.09 M	\$0.27 M	None	None	None	None	Would likely qualify for a Categorical Exemption
9	University Avenue Depressed/Cantilevered Express Lanes	EPA	1,260		-200 (-10%)	-200 (-20%)	\$440 M	\$64 M	\$200 M	\$704 M	Less-than-significant impact	Less-than-significant impact	Some impact to wetlands at edge of Bay	Minimal impact; no acquisition of businessess or residences	Would impact Hetch- Hetchy pipelines; presence of Bay mud will affect trench design/cost; trench will need a system for dewatering of storm water & groundwater; full EIR may be required

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2020 PENINSULA GATEWAY CORRIDOR STUDY NEXT STEPS

The purpose of the 2020 Peninsula Corridor Gateway Study is to identify short, medium and long-range options for addressing traffic congestion issues relating to the connections of the Dumbarton Bridge and US 101 between SR 84 and SR 85. To date, technical analyses have resulted in the development of the universe of alternatives and identification of traffic benefits, costs, and potential impacts associated with these project alternatives.

The next steps will be to establish project categories and assign the project alternatives into these pre-defined categories for the purpose of establishing a project implementation plan. For discussion purposes, a preliminary outline for the next steps is as follows:

